Handy Guide for Mechanics

BLACKHAWK WRENCHES For Every Mechanical Need

SOCKET and OPEN END



BLACKHAWK MANUFACTURING CO.
"Wrench Headquarters of America"
MILWAUKEE • • • WISCONSIN

PRTD. IN U.S.A.

CATALOG MG. 100

A Message to the Mechanic

THIS little handy guide for the mechanic is published by a firm that has been specializing in fine tools for a generation. There is little tribute therein paid to fancy names or confusing terms.

Plain language predominates
—Easy tables are for your reference — complete descriptions
supplant superfluous phrases.

These products are sold and backed by established dealers located in your own community. They are your friends. Buy from them then, with complete confidence at all times.

These dealers usually will grant you credit — eliminating the disadvantage of payment in advance to tool peddlers for inferior articles at prices which might be higher than you should pay.

Blackhawk fine tools are made for many years of service and with reasonable care will prove an excellent investment.

Use Blackhawk socket wrenches and Blackhawk-Armstrong Open End wrenches and you will constantly improve your producing ability.

Mechanics Guide—Blackhawk Wrenches

The Meaning of the Hex:

Like Sterling on silverware and Steinway on pianos, the words Blackhawk on wrenches, means the last word in materials and workmanship. The symbol Hex (trade mark of Blackhawk) is a protection to mechanics everywhere and teaches that—

When You See a "HEX" Think of BLACKHAWK

The Meaning of the Colors:

For years Blackhawk Socket Wrenches have been advertised and displayed in striking combinations of yellow, red and black. You will find that the new "Chief" Sets with Chromium finish are being glorified in royal purple and black—and our latest product, Blackhawk-Armstrong Open End Wrenches appear in print in pleasing effects of deep blue, green and black. You can locate by color distinction the type of wrench you desire.

A Guarantee without any Strings:

Blackhawk wrenches are made for the mechanics of the world to use for setting and loosening nuts, cap screws, and any turnable device with a hex or square head. If any owner feels that our product has in any way failed to give this service, or has worn out before its time, replacement will cheerfully be made by Blackhawk thru any of our authorized dealers or distributors.

Where to Buy and How to Buy:

Blackhawk products are displayed in cabinets and on boards by leading dealers and wholesalers in most every buying center. Mechanics can buy from these convenient service stocks with confidence that Blackhawk will stand back of any representation made by any of our thousands of distributors.

Prices Quoted Herein are Net to Mechanics:

In arriving at mechanics' prices, discounts varying from 30 to 40% have been deducted from consumer list—so prices are net and not subject to further discount.

No. 32CD Set

Here's the most popular set of wrenches in America - this Master Mechanics set No. 32-CD. It will enable you to use your skill to fullest advantage - save time, bruised knuckles and cussing.

Packed in heavy gauge steel case with beautiful two-tone crackle finish of maroon and black.

Contents of Set

32CD

22CD

43DD

One each of following: Handles Nos. 911X, 610, 500, T10, T60, T4, 3310, and 110X. Attachments Nos. T1, T2, and T11. Double Hexagon Sockets Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30, D31, D32, and D34. Square Sockets Nos. 012, 014, 016, 018, and 020. Spark Plug Socket No. 136.

No. 32CD Set ...\$18.20

No. 32C Set (with Hexagon instead of Double Hexagon Sockets \$17.45

No. 22CD Set

A dandy set for the mechanic who is not quite ready for the complete set No. 32CD. Comes in the No. C Case so that purchaser can add tools at convenience until set is complete. Contains 22 tools packed in beautiful two-tone crackle finished case.

Contents of Set

One each of following handles: Nos. 911X, 610, 500, T4, 3310, T5, T10, and T60. Attachments: Nos. T2, and T11. Spark Plug Socket: No. 136.

Double Hexagon Sockets: Nos. D14. D16, D18, D19, D20, D21, D22, D24, D25, D26, and D28.

No. 22CD Set .. \$14.60

No. 22C Set-Same but with Hexagon instead of Double Hexagon Sockets ...

No. 43DD Set

The Set for every job-car, truck, tractor, threshers and farm machinery. This set combines the tools of the famous 32CD Set, with the heavy duty handles and sockets in the 35B Set described on Page 18. Contents pictured at left. Neatly arranged in the sturdy No. D Case with the two-toned red and black crackle finish.

No. 43DD Set\$28.90

No. 43D Set-Combines tools of 32C and 35B \$28.15

(These Prices Net to Mechanics)



Heavy Duty Set

Just the set needed by mechanic who repairs trucks, tractors, and farm ma-chinery. A favorite in Industrial Plants. chinery. A favorite in Industrial Plants. Those big frozen nuts give up the fight when you apply one of these husky sockets and powerful handles. Sockets of special steel, properly heat treated to stand up under constant use. Handles have 34" square shank—sockets 34" opening for handles.

NO. 36B SET CONTAINS 1 EACH:

No. 35B—Set (Same as above less No. 916 Ratchet). Price \$10.70
No. 35—Set (Same as 35B except pack-

ed in wooden box). Price ...

Drain Plug Sets No's, 23G and 15G

Here's a complete set of tools for Drain Pit Service. All the sockets, handles, and attachments necessary for removing plugs to drain crank case, drain and refill plugs in transmission and differential housing.

NO. 23G SET CONTAINS 1 EACH:
No. T4 sliding T, No. T6 extension bar.
No. T1 attachment for drain plugs with

slot.

Hexagon Sockets, Nos. 16, 24, 30, 32, 34, and 36. Square Sockets, Nos. 014, 016, 018, 020,

022, 024, and 028. Square Plugs, Nos. 710, 712, 714, 716,

718, 720, and 724. The No. 15G Set is packed in same box as No. 23G but contains only 15 tools. Provides a low priced set that will handle drain service on the majority

of popular cars.

NO. 15G SET CONTAINS 1 EACH:
No. T4 Sliding T, No. T6 extension bar.
Hexagon Sockets, Nos. 16, 24, 30 and

Square Sockets, Nos. 014, 016, 018, 020, and 024.
Square Plugs, Nos. 712, 714, 716, and 718.

No. 23G Set . No. 15G Set .

No. 13H Set

This little set of wee handles and tiny double hexagon sockets ideal for use on work in close quarters such as: Automotive universal joints, oil pump screws, terminals, water pumps and fan assembly located in front of motor, carburetor joints, cap screws, generator bolts, pole pieces and brushes, uni-versal generator and water pump couplings, distributors and numerous other electrical and automotive devices. Ideal for aviation work. Set contains 13 tools, one each of items, pictured at right.

No. 13H Set—Complete in Metal Case H

No. 9L Set

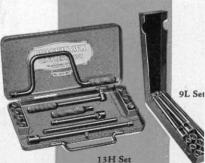
For those who have use for only a

(These Prices Net to Mechanics)





23G Set







T16 Series



Blackhawk Q. D. Sockets



UNIVERSAL JOINT SOCKETS 90° angle.

		90	angic.		
H	ex. Soc	ket	H	ex. Soc	ket
No.	Size	Price	No.	Size	Price
T16	1/2"	\$1.15	T24	3/4"	\$1.35
T18	9 "	1.15	T26	13"	1.35
T20	5/8"	1.15	T28	7/8"	1.50
T22	11 "	1.35			

No. 710 712 714 716 718 720 724 Size $\frac{7}{10}$ $\frac{3}{8}$ $\frac{7}{10}$ $\frac{1}{2}$ $\frac{9}{10}$ $\frac{5}{8}$ $\frac{3}{4}$ Price, each \$\infty\$



For increasing or decreasing square shank sizes to square socket openings.

	Square				
Adap-	Open-	Square	Used		
ter	ing	Shank	on		
No.	"A"	"B"	Handles	Price	
T7X	5/8"	3/4"	Increase	\$.60	
T9X	1/2"	3/4"	Increase	.50	
T9XX	3/4"	7/8"	Increase	1.00	
T7	3/4"	5/8"	Decrease	.60	
T9	3/4"	1/2"	Decrease	.50	
T90	7/8"	3/4"	Decrease	1.00	

Table of Standard Q. D. Square Sockets 1/2" Sq. Handle Openings

Socket No.	Socket Size	U.S.S. Nuts and Bolts	U.S.S. Cap Screws	Square Head Set Screws	Coach	Net Price
012 014 016 018	3/8 7/16 1/2 9/16 19/12	1/4	1/4 %16 3/8 %16	3/8 7/16 1/2 9/16	3/8	.25 .30 .30
019 020 022 024 025	5/8 11/16 3/4 25/2 13/16 7/8	%6 3∕8 7/16	1/2 916 5/8	5/8 3/4	1/2	.35
026 028 030 032	18/16 7/8 15/16	1/2 %s	3/4	³ /8	5/8	.50
034 040	11/4	%16 5/8 3/4	1	11/4		.65

(These Prices Net to Mechanics)

BLACKHAWK Socket MILWAUKEE

Blackhawk Quick Detachable Sockets

Built to stand the gaff. Proper taper, depth, and thickness of wall in each socket to take the fight out of the toughest nut.

Table of Standard Q. D. Hexagon and Double Hexagon Sockets 1/2" Sq. Handle Openings

Double Hex. No.	Hexagon Socket No.	Socket Size	U.S.S. Nuts and Bolts	Hex. Head Cap Screws U.S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach Screws	Net Price Hexagon	Net Price Double Hex.
D14	14	7/16		1/4	3/4	1/4		.25	.30
D16	16	1/2	1/4	5/16	1/16	73		.25	.30
D18	18	916		3/8	3/8	-	3/8	.25	.30
D19	19	19/32	5/16					.25	.30
D20	20	5/8		3/16	3/16	3/8		.25	.30
D21	21	21/32		4.5				.35	.35
D22	22	11/16	3/8	_ // /	T. L		3	.35	.35
D24	24	3/4		1/2	1/2		1/2	.35	.35
D25	25	25/32	746					.35	.45
D26	26	13/16	-	%16		1/2		.35	.45
D28	28	7/8	1/2	5/8	9/16			.35	.45
D30	30	15/16			3/8		5/8	.45	.50
D31	31	31/2	%16	TO SECTION				.45	.50
D32	32	1		3/4	11/16	5/8		.45	.50
D34	34	11/16	5/8		3/4			.50	.55
D36	36	11/8		7/8			3/4	.50	.65
D40	40	134	3/4	1	3/8		00	.50	.65

Table of Standard Q. D. Deep Hexagon Sockets 1/2" Sq. Handle Openings

Socket No.	Socket Size	U.S.S. Nuts and Bolts	Hex. Head Cap Screws U.S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach	Net Price
216	1/2	1/4	- 5íc	9/16			.35
218	%16		3/8	3/8		3/8	.35
220	5/8		7/16	7/16	3/8		.35
222	11/16	3/8			138		.35
224	3/4		1/2	1/2		1/2	.50
228	7/8	1/2	5/8	%6		T _o	.50
230	15/16		100	5/8		5/8	.55
232	1		3/4	11/16	5/8		.55
7	Soci	of F	leavy D	uty Q. Handle	D. F	Hexago enings	on
28x	7/8	_	-	916			.50
30x	15/16			5/8		5/8	.50

28x	7/8	1/2	5/8	%16			.50
30x	15/16	N		5/8		5/8	.50
31x	31/32	%6					.50
32x	1	- 4	3/4	11/16	5/8		.50
34x	11/16	5/8	(III - TIC)	3/4			.55
36x	11/8		7/8			3/4	.60
38x	1%6		0		3/4		.60
40x	11/4	3/4	1	3/8	182		.60
42x	1%6	THE				7/8	.65
44x	13/8		11/8		7/8		.65
46x	17/16	7/8	VIDE	1			.85
48x	11/2		11/4	1000	G A	1	.85
50x	1%6			1910	1		.85
52x	15/8	1		11/8			.85

Table of Tiny Q. D. Double Hexagon Sockets 3/8" Sq. Handle Openings

	THE TOWN ASSESSED.	kets 78	oq.	riandi	e Ope	mings	
810	1,316	No. 6					.30
812	3/8	No.10					.30
814:	7/16		3/4	3/4	1/4		.30
816	1/2	3/4	%i6	%16			.30
818	%16		3/8	3/8		3/8	.30
820	5/8		7/16	7/16	3/8		.30

(These Prices Net to Mechanics)











Heavy Duty Hex



Extra Heavy Duty Square 110X

911X-906

510

3310

310

500

2210

T15

1210

TO REVERSE-SHIFT LUG

T4

610-6310

BLACKHAWK (Socket) MILWAUKEE

Quick Detachable Handles

Extension Bars

shown on pr	andard ½" sh receding page. I tand the gaff. 5%	Properly heat " dia. Shank.
No. T b	Length 6"	Price \$.50
No. T10	Length 8" Length 10"	Price .55
ing off nut	ip for convenier s and cap screv	vs.
No. T60-6		vs. \$.55 3⁄4″ dia.

Sliding T Handles

Friction head retains bar at desired position. When used with extension bar provides T or L. (No. T4 Standard Sliding T shown on page 9.)

No. T4X-3/4" shank, 13" dia.
18" long

Stud Setter and Extractor

Used with any standard 1/2" handle to set or remove studs from 1/4" to 5/8"

No. 651 ..

Tie Rod Wrench

For standard 1/2" handles. No. T1-For ordinary car work....\$.40 No. T1X-For heavy duty work....\$.55

Ratchet Attachment

Used with any Q. D. Handle with ½" square lug. Provides a ratchet wrench on work that is inaccessible to standard type ratchets. No. T3 ...

Valve Grinder Attachment

Fits any standard speeder handle. Points will fit all valves. No. T11 Set 4 extra points

Ratchet Wrenches

No. 916—Heavy Duty with 3/4" square lug	5.6.
No. T13X-Lug for No. 916	
Ratchet	.5.

Tiny Handles

Tiny Handles shown on page 3 have 3/4" square shank. Just the tools for Ignition Service work. Packed as 13H Set and 9L Sets.

No. $500S - \frac{7}{18}''$ dia. $10\frac{1}{2}''$ overall, $3\frac{3}{8}''$ sweep. Equipped with revolving knurled steel grip ... No. 801 - For use with No. 807 or

any liny	nandle			\$.3
No.	Dia.	Leng	th	Pric
T 6S T 10S	7 " 7 "	10		\$.60
No. 807 - ed grip to	speed t	the job.		\$.5
No. T4S with exte	-3/8" di	a. 7" 1	ong.	For us
No. 110S one-piece	-7" d	ia. 73/4	" lon	g. Soli

(These Prices Net to Mechanics)

Quick Detachable Handles

Offset Handle

No. 110X 5%" dia. 10 16" long. Price, each\$.65

Sliding Tee

No. T4 18" dia. 10"/4" long. When used with extension bar makes either L or T Wrench. Price, each

Long Speeder

No. 6310 1/2" dia. 28" overall, shank 20". Will last a life-time. Price, each.....\$1.00

Standard Speeder

No. 610 18 dia. 19 overall, shank 11 The speedier speeder. Price, each\$.90

Universal T and L

No. 510 90 degree Universal. % overall. Sliding bar head provides either T or L. Price, each

Tee Handles

No. 3310 Handle 71/4" wide, 1/2" long. No. 310 Same as 3310 but without revolving grip. Price, each

Brace Handle

No. 500 1/2" dia. 155/8" overall. Price, each\$

Double-end Offsets

These three Double-End Offsets built on principle of making both ends useful. No. T5 Price, each\$.55

Double-end Z Offset

No. 2210 11/2" dia. 10" long, offset Price, each

Double-end L Offset

No. 1210 Price, each\$.60

Ratchet Wrenches

No. 911X The ½" square ratchet lug can easily be pushed to other side, thus changing direction of ratchet. Complete with one ratchet lug. Price, each

No. T13 Extra ratchet lug. Price, each\$.25 No. 906 6" ratchet, similar to 911X. \$2.00

Crank Speeder

No. T15 Price, (These Prices Net to Mechanics) EXTENSION BARS

BLACKHAWK T10 BLACKHAWK T60 T8X-T8XX T17X-717XX SLIDING T HANDLES T4-T4X T4XX T40XX



SPECIAL WRENCHES







916-920

Pal



Metal Carrying Cases

Look! good looking, strong carrying cases. Heavy one-piece top and bottom-snap shut like a watch case-swivel metal handles-no rough patched corners -18 gauge steel used. Beautiful lasting finish - two-tone black and maroon lacquer. Inside of case copperized.

No. A - 16" long, 63/4" wide, 21/2" high—used in No. 18AD and 18A sets-Mechanic's net price \$2.65 No. B- $19\frac{1}{16}''$ long, $5\frac{9}{16}''$ wide, $2\frac{1}{2}''$ high for 35B and 36B sets-Mechanic's net\$2.65 price No. C - 197/8 long, 83/8" wide, 2½" high for 22CD, 32CD, 22C, 32C, 30CD and 16CD sets-Mechanic's net

No. D $-23\frac{1}{8}$ " long, 11" wide, 21/2" high for 43DD and 43D sets-Mechanic's net price

No. G — $11\frac{1}{8}$ " long, $6\frac{1}{8}$ " wide, $2\frac{3}{4}$ " high for No. 23G drain pit set-Mechanic's net price\$2.35

No. H - 11" long, $4\frac{3}{4}$ " wide, 11/4" high for No. 13H Electrical set\$2.00

Mechanic's Case No. F

Handy Mechanic's case. Will hold tools in any Blackhawk set and in addition - hammers, punches, pliers, etc., as well as supply of nuts and cotter pins. Has removable steel tray. Yale lock and steel carrying handle.

Size 61/2" x 63/4" x 201/2"-Mechanic's net price\$6.00

Gable Case No. I

Designed for master mechanics. Lasting qualities built in with features of roominess, strength and convenience. Lower section has ample space for complete Blackhawk Q. D. handles and sockets. Removable tray for special tools such as pliers screw driver, hammer, etc.

18 gauge steel-has Yale lock and special carrying handle. Size 21" long, 10" high, 8" wide -Mechanic's net price.....\$8.65

(These Prices Net to Mechanics)



And Now—Open End Wrenches

BLACKHAWK now places on the market a complete line of open end wrenches, made of Chrome Vanadium steel, Chromium plated, to be known as Blackhawk-Armstrong Wrenches.

Mechanics who have long recognized Blackhawk's leadership in socket wrench manufacture welcome this new and superior line of open end wrenches.

Chrome Vanadium — Chromium Plated

These tools are of Chrome Vanadium steel and plated with Chromium over nickel and copper. The resulting beautiful finish is matched by the extreme toughness of the steel underneath. Naturally these tools may be made much thinner and lighter than carbon steel wrenches of approximately equal strength. The Chromium finish not only retains its luster, but is more resistant to rust and extremely hard so that tools remain new looking after long service.

Length, Thinness, Strength

Note extra leverage. Blackhawk-Armstrong Open Ends are made extra long and light with smaller and thinner heads. That means added leverage and easier operation in close quarters. Mechanics will find these tools provide comfortable grips, added safety, a 100% satisfactory tool that will answer the open end wrench problem.

Our Guarantee

Blackhawk-Armstrong Open End wrenches are guaranteed not to break or spread. Any wrench that does not meet this claim will be replaced without charge.

F Case

J Case

CHROME VANADIUM - CHROMIUM PLATED

The Engineers Type

Number For U.S.	Std. Nuts; Size Bolts Inches	For Hex Head Cap Screws; Dia. Screws Inches	For S.A.E. Std. Nuts and Cap Screws; Dia. Screws Inches	Openings Milled Inches	Extreme Length Inches	Thickness Heads Inches	Mechanics Net Price
1723 1723 1723 1723A 1723A 1723A 1725B 1725B 1725B 1725B 1725B 1726 1727 1727 1027 1027 1027 1027 1027 1027	& % % % % % % % % % % % % % % % % % % %	18 & 16 18 & 14 18 & 14 18 & 16 18 & 14 18 & 16 18 & 16 14 & 18 18 & 16 14 & 38 18 & 1	14 24 16 16 16 16 16 16 16 16 16 16 16 16 16	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5½ 5½ 5½ 5½ 6 6 6 6½ 6½ 6½ 6 6½ 7 7 7 7 7 7 7 7 7	1344442224444442222236666666666666666666	\$0.45 .45 .45 .55 .55 .65 .65 .65 .65 .65 .80 .80 .80 .80 .80 .80 .81 .95 .95 .95 .95 .95 .1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.



No. 26 Set

Slip one of these silver-blue babies in your hand. You'll enthuse at the over-reach in length, the thinness and beauty of design of a really fine tool.

Set contains one each: Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C. Mechanics net price in box, \$5.30

In leatherette roll\$6.00

BLACKHAWK-ARMSTRONG WARN



The Obstruction or Right Angle Type

For getting into difficult places. Narrow pointed jaws—projecting from same side of handle. Strong—comfortable to use, openings at 85° angle.

Number	For U.S. Std. Nuts Size Bolts	For Hex Head Cap Screws; Diameter Screws	For S.A.E. Std. Nuts and Cap Screws; Dia. Screws	Openings Milled	Extreme Length, Approx.	Thickness Heads	Mechanics Net Price
2721 2021 2722 2723 2022 2023 2723A 2024	1/8 & 1/4 1/8 & 1/4 1/6 & 1/4 1/4 & 8.56	1/8 & 1/4 1/8 & 1/4 1/6 & 1/4 1/8 & 1/6 1/6 & 1/6	1/4 1/4 1/4 %16 %16 %16	16 & 3/8 16 & 14/12 16 & 14/12 16 & 1/16 3/8 & 1/16 16 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2 14/12 & 1/2	4 1/4 4 1/4 4 1/4 4 1/4 4 3/4 4 3/4 4 3/4 5 1/4	1364 1364 1364 1364 1364 1364 1364	\$.45 .45 .45 .55 .55
2725 2725A 2725B 2025 2726 2026 2727	%6 & %6 1/4 1/4 & %6 1/4 & %8 1/6 1/4 & 3/8	14 & 916 14 & 3/8 916 & 3/8 916 & 7/6 916 & 7/6	14 & 16 14 & 38 16 & 38 16 & 38 16 & 16 16 & 16	116 & 1/2 116 & 116 1/2 & 116 1/2 & 11/3 1/2 & 11/16 1/16 & 5/8	43/4 55/4 55/4 55/4 65/4 65/4 73/4 73/4 73/4 73/4	1964 1964 1564 1564 1764 1764	.65 .65 .65 .80 .80
2027 2027C 2728 2028 2028S 2729	%6 & 38 3/8 %6 & %6 %6	3/8 3/8 & ½ 7/6 3/6 & ½	3/8 3/8 & 1/2 7/16 7/16 & 1/2	196 & 146 96 & 146 96 & 34 196 & 256 58 & 256 146 & 256 146 & 256	6½ 6½ 7¾ 7¾ 7¾ 7¾ 7¾	1764 1764 952 952 952 952 952	.80 .80 .95 .95 .95
2029 2030 2731 2731A 2031 2731B	3/8 & 1/6 3/8 & 1/2 1/6 & 1/2 1/6 & 1/6	5/8 1/2 & 1/6 1/2 & 5/8 1/4 & 5/8	%16 1/2 & %16 %16 %16	3/4 & 1%6 3/4 & 7/8 25/2 & 7/8 1%6 & 7/8	734 734 934 934 944 944 944	952 952 1364 1364 2364 2364	.95 .95 1.25 1.25 1.25
2032 2033A 2033	1/6 & 1/6 1/2 1/2 & 1/6	5/8 5/8	%6 & 5/8 %16	25/32 & 31/32 7/8 & 15/16 7/8 & 31/32	9 ¹ / ₄ 9 ¹ / ₄ 9 ¹ / ₄	23/64 23/64 13/64	1.25 1.25 1.25

BLACKHAWK MFG. CO., MILWAUKEL, U.S.A

No. 2005 Set

This set provides the most necessary wrenches, to make rapid and efficient work possible in close quarters. Contents one each: Nos. 2723, 2025, 2027C, 2028S, and 2731A.

Mechanics net price in box, \$3.70

In leatherette roll\$4.35



BLACKHAWK MFG. CO., MILWAUKEE, U.S.A.



The Electrical Type

THESE tiny tools meet with the complete approval of Ignition and Radio Experts. All who do Ignition work or the fussy jobs on electrical systems want a trim set that offers just the little wrench for each nut. The No. 18 set has it. The two-tone, gray-green leatherette case contains ten accurately finished wrenches, listed and illustrated below:

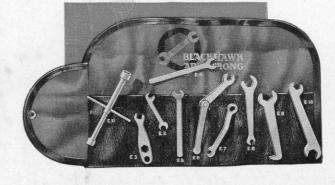
Mechanics Net Prices on Individual Ignition Wrenches

No.	Price	No.	Price
E2	\$.35	E7	\$.45
E3		E8	45
E4		E9	
E5		E10	45
E6		E11	

Complete, this set weighs but 10 ounces. In the tool roll it fits the pocket like a wallet and it's there when you want it.

Mechanic's net price of No. 18 set:

In box	\$3.80
In leatherette roll	\$4.20



BLACKHAWK "Chief" Socket Wrenches



1 "Lock-On" Sockets—may be used either as quick detachable, or positively "locked-on" the handle yet instantly removed when necessary.

2 Double Hexagon Sockets—a great convenience, especially on work in close quarters. These sockets take hold at any position of the handle. Greatly speed up work.

3 Chrome Vanadium Steel—This feature speaks for itself. The toughness of this alloy steel is too well known to need description here.

4 Chromium Plating—a brilliant, rust resisting finish, amazingly long-lived, and easy to keep bright and clean. Used for the first time on socket wrenches.

5 Special Metal Case—heavy gauge steel with rich red-and-black crackle finish. Inside of case has bronze metal finish. A beautiful case for beautiful tools.

BLACKHAWK MFG, CO., MILWAUKEE, U.S.A.

The Chief Tools

ACH handle and socket listed here is of Chrome Vanadium and finished in the popular "blue silver" Chromium. Sockets are double hexagon and with the handles have the important "Lock-on"

Blackhawk black enameled line of sockets and handles will interchange with these but cannot en-

joy the Lock-on feature.

Take a slant at the individual items in these sets. First there's the 9506, a brace handle with wide sweep. Two speed grips knurled to the Queen's taste—length 155/8", weight 1 lb. 8 oz. Price \$1.65.

Now comes 9611, the speeder handle. It has the

new Blackhawk knob, practically indestructible, Overall length 19", weight 2 lbs. Price \$1.50. Here's the 9811, the finest, strongest, best looking

ratchet wrench in the world. Thin tapered on the working end. Six different steels in this tool. Partly Swedish. Length 10", weight 1 lb. 5 oz. Price \$2.50.
Fourth is number 9201 a whale of an offset for

husky work. Solid, deep knurled grip. Length 10 18",

weight 1 lb. 2 oz. Price \$1.15.

The most necessary tool of all is number 9204, the sliding T. It's an offset wrench too, if required. Length 101/4", weight 1 lb. Price \$.90.

Oh, yes! Mechanics must have extension bars. These have revolving steel grips. The 9210 is 10"

long. Weight 1 lb. Price \$1.15.

No. 9206 is 6" long, weight 14 oz. Price \$1.00. No. 9001 sounds like a phone number but it's a key or unlocking pin for releasing the lock-on trip ball. If lost, mechanic can use a nail, rivet, or center punch equally as well. Price \$.05.

The 8836 is the spark plug socket for Fords and those cars that use a 11/8" size plug, weight 10 oz.

Price \$.85

A 90° angle features the new 8502 universal joint. Will reach all those hidden and inaccessible nuts. Weight 6 oz. Price \$1.65.

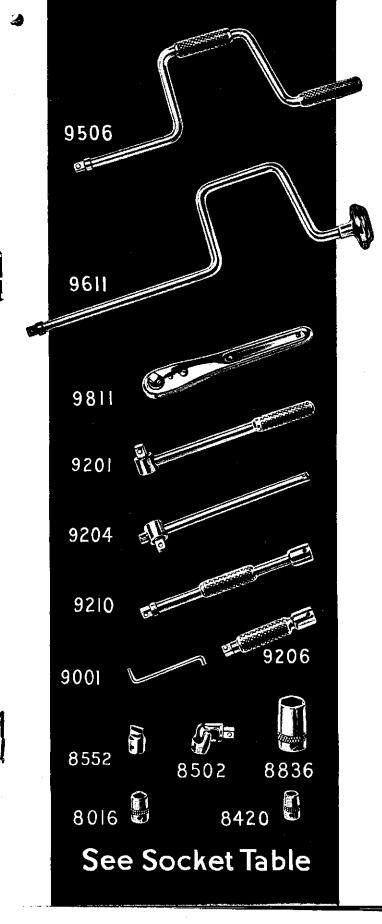
No. 8552 Drag link and tie rod socket is a mighty essential tool for every mechanic. Weight 2 oz.

Price \$.55.

The square socket 8016 and double hex. 8420 represent the sockets. See tables below. They'll take the fight out of the toughest nuts. Have long nose and slim taper for close work.

TAI	BLE OF D	OUBLE H	REXAGON	SOCKET	S
Standard Double Hex. Sockets	Socket Opening	U.S.S. Nuts and Bolts	S.A.E. Nuts and Cap Screws	U.S.S. Cap Screws	Price
8414 8416 8418 8419 8420	16" 15" 1832" 5'A"	14" Yis"	14" %6" 38"	1/4" %16" 3/8"	\$0.45 .45 .45 .45
8421 8422 8424 8425 8426	21/32" 11/16" 3/4" 13/16"	3/8'' 716''	1/2"	1/2"	.45 .45 .50 .50
8426 8428 8430 8431 8432	7/6" 14/6" 1/52" 1"	1/2'' %15''	916" 3.8" 11/16"	916" 5/8"	.50 .55 .55

TABLE OF SQUARE SOCKETS					
Std. Sq. Sockets	Socket Opening	U.S.S. Nuts and Bolts	U.S.S. Screws	Cap Sq. Head Set Screw	Price
8012 8014 8016 8018 8020	3/8" 156" 1/2" 1/0" 5/8"	1/4"	14" Fie" 38" Ke" 12"	3.6" %6" 1/2" %6" 5.8"	\$0.45 .45 .45 .45 .45



BLACKHAWK "Chief" Socket Wrenches



30CD Set

The Chief of the Chiefs-Makes any workman a better workman. A wonderful competent set of tools. Handles that fit the hand-Sockets that fit the handles - Complete tools that fit the job. Here's the

CONTENTS OF 30CD SET

- No. 9611 Speeder handle. No. 9506 Brace handle. No. 9811 10" Ratchet handle. No. 9201 Offset handle.

- No. 9204 Sliding T and offset. No. 9204 Sliding T and offset. No. 9206 6" Extension bar.
- 1 No. 8502 Universal joint.
- 1 No. 8552 Drag link and tie rod
- socket.

 1 No. 8836 11/8" Spark plug socket.

 1 No. 9001 Release tool.
- 14 Double hexagon sockets from 16" to 1" inclusive.
- 5 Square sockets from 3/8" to 5/8"

No. 30CD (Complete in metal case). Mechanics net price\$21.00



16CD Set

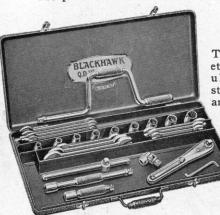
All metal cases used on Chief Sets are described on page 8. Mottled maroon and black finish inside in copper.

This set is a miniature of the 30CD with fewer handles and sockets but with same size carrying

CONTENTS OF 16CD SET

- No. 9506 Brace handle. No. 9811 Ratchet handle. No. 9204 Combination T and
- 1 No. 9210 10" Extension bar.
- 1 No. 9206 6" Extension bar. 1 No. 8502 Universal joint. 1 No. 9001 Release tool.
- 9 Double Hexagon sockets from 16" to 7/8" inclusive.

No. 16CD (Complete in metal case). Mechanics net price



26KD Set

The most necessary socket wrenches and most popular Blackhawk-Armstrong open end wrenches are in this set. 16 sockets

> and handles, same as in 16CD Set, six engineers and 4 tappet open ends. (See table bottom page 17). Case large enough to allow additional sockets, handles, and open ends.

No. 26KD (Complete in metal case). Mechanics

BLACKHAWK-ARMSTRONG WRENGH



The Miniature Type

ITTLE gems these smallest of drop forged wrenches are the tools for the fussy little tasks. Those tough baby nuts must give up the fight when you clamp down with a Miniature Blackhawk-Armstrong wrench.

The No. 20 Set contains one each of the wrenches shown in this table:

		TI	.: -1	Me-
	Milled			Net
No.	Openings	Lgth.	Hds.	Price
H-10	3 & 7	21/2"	32	\$.45
H-12	1/4 & 32	3"	$\frac{5}{32}$.45
H-14	5 & 11 16 & 32	33/4"	3 16	.50
H-16	3/8 & 7	41/8"	32	.50
H-18	$\frac{13}{32}$ & $\frac{15}{32}$	41/8"	$\frac{7}{32}$.50
Mech	anics net	price	of N	o. 20

In	box			\$2.05
In	Leat	herette	roll	2.40



These open ends in the 26KD (See P. 16). Out of the many popular

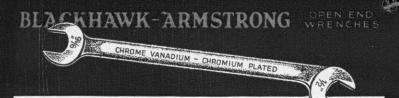
open end wrenches these six engineers and four tappets were chosen as most necessary and are included in the "Chief" set. You be the judge.

Tables are given below with further Engineers



information on page 10 and the complete tappet story on page 18.

	Straight	Angle		Openings
No.	Opening	Opening	No.	Milled, Inches
402-B 402-C 404-B 404-C	1/2" %16" 5/8" 11/16"	916" 1/2" 11/16" 5%"	1723 1025 1027-C 1028-S 1731-A 1033-C	3/8" & 7/6" 7/6" & 7/2" 9/6" & 11/6" 5/8" & 25/2" 3/4" & 7/8" 11/16" & 1"



Tappet Type 22½° Angle

Extreme leverage because of length which also allows tappet adjustment while motor is hot, are the two real features of these wrenches. Made in two styles—with same size opening on each end — opposite ends with different openings.

No.	Milled Openings	S.A.E. Std. Nuts Bolt Size	U.S.S. Nuts Bolt Size	Extreme Length	Thickness of Head	Mechanics Net Price
401 401A 402 402A	3/8 7/16 1/2 17/32	1/4 %16	1/4	8 8 8½ 8½ 8½	5/32 5/32 5/32 5/32	\$1.20 1.20 1.20 1.20
403 403 A 404 405	9/16 19/32 5/8 11/16	3/8 %6	5/16 3/8	8½ 8½ 8½ 8½ 8½	732 532 532 316 316	1.20 1.20 1.35 1.35
406 406A 407	3/4 25/32 13/16	1/2	7/16	9	7/32 7/32 7/32	1.50 1.50 1.50
407A 408 408A 409	7/8 15/16 31/32 1	%6 5/8	1/2 %16	9 9 9	7/32 7/32 7/32 7/32 7/37	1.50 1.70 1.70 1.70
	S L	S L	S L			
402B 402C 404B	1/2 & 1/6 1/6 & 1/2 5/8 & 11/16	%6 &3/8 3/8 & %6 %6	1/4 1/4 3/8	8½ 8½ 8½ 8½	932 932 916	\$1.20 1.20 1.35
404C 406B 406C	11/16 & 5/8 3/4 & 7/8 7/8 & 3/4	1/2 & %16 %16 & 1/2	3/8 1/2	8½ 9	%16 %16 %16	1.35 1.50 1.50



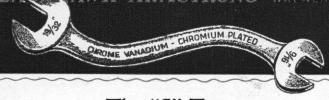
No. 412 Tappet Set

(See page 19 for No. 400 Set)

Same size opening on ends—One straight other 22½° angle. Will adjust 75% of all tappets.

Contents — Two each: 402, 403, 404, and 405.

Mechanics net price of 412 set in box\$9.10 In leatherette roll\$9.80 BLACKHAWK-ARMSTRONG WEENENE



The "S" Type

221/2° Angle Double Head

Blackhawk—Armstrong "S" Wrenches are long and light as compared to these capacities. Jaws are narrow and can get at the nut that is placed in close quarters. Finish in Chromium with heads buffed bright.

Number	For U.S. Std. Nuts; Size Bolts	For Hex Head Cap Screws; Dia. Screws	For S.A.E. Std. Nuts and Cap Screws; Size Bolts	Openings Milled	Extreme Length, Approx.	Weight Each, Lbs.	Thickness Heads	Mechanics Net Price
1075B 1075A 1075 1077S 1077B 1077B 1079B 1079S 1079A 1079C 1081	%6 & 14 14 14 14 16 3/8 3/8	% % % % % % % % % % % % % % % % % % %	14 %6 %6 %8 %6 %3 %8 %6 %8 %6 %8 %6 %6 %6 %6 %6 %6 %6 %6 %6 %6 %6 %6 %6	36 & 76 34 & 32 1822 & 86 162 & 86 163 & 86 164 & 116 165 & 34 1166 & 32	614 614 614 714 714 714 814 814 814 814 914	16 16 16 14 14 14 12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	14 14 14 932 932 932 936 916 916 916 916 916	\$0.70 .70 .95 .95 .95 1.15 1.15 1.15 1.15
1081B 1081A 1083 1083B 1083A 1085	1/2	1/2 & 9/16 1/2 & 5/8 5/8 & 3/4 3/4 & 7/8	1/2 1/2 & %6 5/8 9/16 & 1/1/6 5/8 & 1/1/6 11/1/6	3/4 & 13/16 3/4 & 2/8 27/32 & 15/16 2/8 & 1 15/16 & 1 1 & 1 1/8	914 914 1038 1038 1038 12	1 1 1	3/8 3/8 3/8 3/16 7/16 7/16	1.35 1.35 1.80 1.80 1.80 2.50
1085 1085C 1085B	5/8 & 3/4 3/4	74 & 78 1 76 & 1	3/4 & 7/8 3/8	1 1/16 & 1 1/4 1 1/8 & 1 1/4	12 12 12	2 2 2	1/2 1/2 1/2	2.50 2.50 2.50

No. 400 Tappet Set

(See page 18 for tables.)

A smaller set — fewer wrenches — but more sizes and less duplication. Different sized openings on each end.

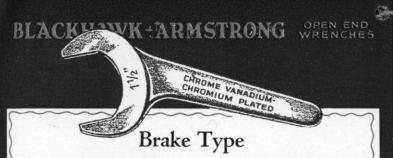
Contents — One each: 402B, 402C, 404B, 404C, 406B, and 406C.

Mechanics net price of 400 set in box\$7.25

Inleatheretteroll, \$7.95



BLACKHAWK MFG. CO., MILWAUKEE, U.S.A.





2537 — Openings, ½" on 22½° end, ½" on 60° end.

2538—Openings, ½" on 22½° end, ½" on 60° end. Both above for use on LaSalle

2526—Openings, 5/8" on 221/2° end, 5/8" on 60° end. Used on all Lockhead Brakes.

2526A — Openings, 16" on 221/2° end, 16" on 60° end.

2526B - Openings, \frac{11}{16}" on \frac{22\frac{1}{2}\circ\circ}{end, \frac{11}{16}" on \frac{60\circ}{end.}

All wrenches are 61/4" long, heads 32" thick.

Mechanics net price each of 5 wrenches above....\$1.00



2542—For Chevrolet Cars, 7½" long, openings 5/8"-3/4", heads 3/2" thick.

Mechanics net price.....\$1.00





2534—For Chrysler Cars, $3\frac{1}{16}''$ long 5%'' opening, heads $\frac{7}{32}''$ thick.

Mechanics net price.....\$.60

2536-For Studebaker Cars, 47/8" long, 7/8" opening, heads $\frac{7}{32}$ " thick.

Mechanics net price.....\$.85



2539—For All Bendix Brakes.

7" long, opening small end

1/4"-1/2", large end 3/4"; heads

16" thick.

Mechanics net price.....\$1.20



2541 — For Studebaker Cars, 10" long, 7/8" opening, heads 58" thick.

Mechanics net price.....\$1.60

2535-For Dodge Cars, 9" long, 7/8" opening, heads 3" thick. Mechanics net price.....\$1.00

No. 35 Brake Set

For the Brake Service Station. Enables mechanics to make speedy and efficient brake adjustment on any car. Set contains one each: Nos. 2534, 2536, 2539, 2535, 2541, 2542, 2537, 2538, and 2526.

Mechanics net price of the No. 35 Set. In box\$8.30

In leatherette roll\$9.20





For Model "T" Fords

Flywheel Cap Screw Wrench

No. 4322 Dia. handle 16" - 16" hex. socket. To remove cap screws with motor in car. Price, each

Connecting Rod Wrench

No. 4020X Dia. handle 15 16 16 17 18 rods including the fourth. Price, each ...

Valve Grinders

No. 4003 4" long. Short type for speed. Price, each .

General Usage Wrench

No. 4116 Dia. handle 1/2" - 1/2" hex. socket. For crank case cover screws, differential drive gear screws, etc. Price, each

Transmission Band Wrenches

No. 4222 Socket sizes 16" and 15". Length 81/4". Also used as Spark Plug wrench. Price, each\$.40

No. 4222X Socket size 11" hex. Length 614". Socket end used on brake and reverse bands—screw driver end for removing transmission cover door screws. Price, each ..

Connecting Rod Wrench

No. 4120 Dia. handle 1/2" - 5/8" hex. socket. For all rods. Price, each .

Fly Wheel Cap Screw Wrench

No. 4422 Dia. handle 15 Specially designed socket 11 ", gives advantage of both socket and open end type. Price, each ..

Generator Wrench

No. 4418X Dia. handle 1/2". Socket sizes 1/6" and and carburetor flange shanks. Price, each

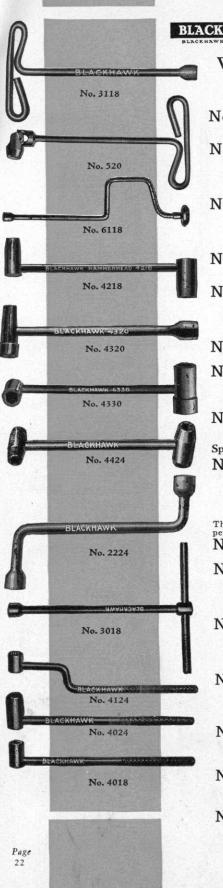
Main Bearing Wrench

No. 4219X Dia. handle ½ "5" - ½ " hex. and ½ "5" sq. sockets. For main bearing bolts and front and center bearing bolts with motor in chassis. Special open socket for piston pin clamp screw. Price, each

Spark Plug and Cylinder Head Wrench

(These Prices Net to Mechanics)







Wrenches for Models A and T Fords

Tee Wrenches No. 3118 Dia. handle ½"-length 12" - ½" hex. socket-fits Ford crank case bolts, engine

No. 3120 Dia. handle ½"—length for cylinder head bolts, etc. Price, each

Universal Joint Tee

No. 520 Dia. handle ½" - length 12"-5%" socket. For connecting rods, cylinder head, etc. Price, each ..

Standard Speeders

No. 6118 Dia. handle 1/2"—length 193%"—16" hex. socket —used especially for engine base bolt nuts.

No. 6120 Dia. handle 1/2"-length hex. socket -for use on cylinder head bolts. Price, each

Long Speeders

No. 6316 Dia. handle ½"-length 28" - ½" hex. socket-Especially for rear fender bolts.

No. 6318 Dia. handle ½"-length 28" - ½" hex. socket.
Price. each

Price, each\$1.00

Cylinder Head Bolt Wrench

No. 4320 Dia. handle 1/2". Sockets Price, each

Spindle and Radius Rod Wrench

No. 4218 Dia. handle "6" - "6" Cokets. Used on main bearing nuts, differential case stud nuts, etc. Price, each ..

Wrenches for General Use

These wrenches used on front spring perch, front radius rod, etc.

No. 4330 Dia. handle 5%". Hex. Sockets ½" - ½" - ½".

Price, each \$8.85

No. 4424 Dia. handle ½". Hex. Sockets ½" - ½" - ½" - ½".

5/8" - 3/4". Price, each ...

Tire Carrier Wrench

Main Bearing Wrenches

No. 3018 Dia. handle 5%" - 16" center main bearing with motor in car-and front bearing with motor removed. Price, each ..

No. 4124 Dia. handle % "- 15" - 15" main bearing bolt without removing motor from car. Price, each

No. 4024 Dia. handle 5/6" - 14"

Designed for use when motor is removed from car.

Price, each

Price, each

No. 4018

Dia. handle 5/6" - 14"

No. 4018

Dia. handle 5/6" - 14"

long. ½6" sq. socket. For front and center main bearing bolts.

Price, each

\$.75

(These Prices Net to Mechanics)



Special Wrenches For Buick

Cylinder Head Wrenches

For removing cylinder head cap screws without disturbing rocker arm assembly. Dia. handle 18".

No. 2020 For Buick Master Six. \$1.10 Price, each

No. 2020X For Buick Standard \$1.10 Price, each

No. 2020 J For 192 Buicks. For 1928-1929 \$1.10 Price, each

Cylinder Block Wrenches

Double hexagon socket wrenches for Buick Master and Standard Six

No. 2320 For Standard Six Mod-long for right rear stud nut only. Price, each ...

No. 2520 For Standard Six Models. 5%" socket - 157%" long, for stud nuts except right rear. Price, each

No. 2324 For Master Six Models. 34" socket-147/8" long for right rear nut only. Price, each ...

No. 2524 For Master Six Models. 3/4" socket - 143/4" long for all stud nuts except right rear stud nut. Price, each

Special Wrenches For Model "A" Fords

Valve Grinder Attachment

No. 4002A Vacuum cup made of high grade pliable rubber to fit Blackhawk valve grinders Nos. T11-4002-4003. Attach to valve by merely pushing down. Price, each ..

Brake Adjusting Wrench

No. 4014X Square sockets - 76" for Model "A" cars and ½" for "AA" trucks. Dia. handle 16" with knurled grip.

Cylinder Head and Spark Plug Wrench

No. 4236 Also fits motor drain plug. Equipped with 11/8" hex. box socket and 11/8" hex. socket. Dia. handle 18". Price, each .

Connecting Rod Wrench

No. 4021 Has 31 hex. socket for use on latest Ford Cars. Dia. handle 18". Price, each ..

Oil Pan Screw Wrench

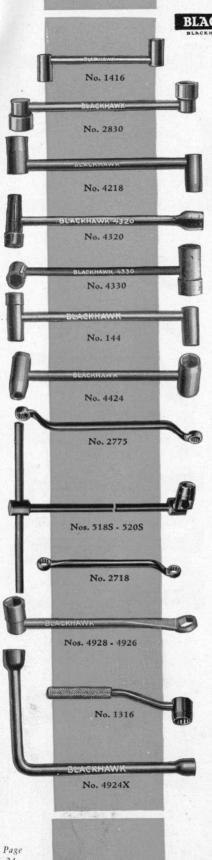
No. 4316 A special length of 8½"
under bend required to
remove oil pan screws. Dia. handle
½"-½" hex. socket.
Price arch. Price, each .

Oil Pump Screen Cover Wrench

(These Prices Net to Mechanics)

No. 2020 No. 2020X No. 2324 No. 2520 No. 2524 No. 2320 No. 4002A No. 4014X No. 4236 No. 4021

No. 4114





Offsets and Special Wrenches for Chevrolet Offsets

HAMMER HEAD TYPE Dia.

No.	Hex. Soskets	Length	Handle	Price
1416	7 "-1/2"	6"	7 "	\$.65
1618	1/2"-16"	63/4"	1/2"	.65
1820	16"-5/8"	71/2"	1/2"	.75
2422	3/4"-11"	91/4"	16"	.85
2830	7/8"-18"	103/4"	5/8"	1.05
3432	1"-116"	121/4"	5/8"	1.15
3640	11/8"11/4"	13"	15"	1.25
144	1/2"-18"-5/8"	10"	1/2"	.70
4218	16"-3/4"	10"	10"	.70
4320	1/2"-5/8"-5/8"	10"	1/2"	.60
4330	18"-7/8"-18"	121/2	" 5/8"	.85
4424	1/2"-18"-5/8"-	3/4" 101/	1 16"	.75

Main Bearing Wrenches

No. 2775 For Chevrolet six main bearing cap screws.

Sockets, 5%" and 34" double hexagon. Price, each \$2.15

No. 4928 Dia. handle 5%". Box end drop forged to 36" thickness for front main bearing bolts. Socket end fits center and rear main bearing bolts. 7%" hex. socket. For 1923 and earlier models. Price, each \$1.05

Price, each \$1.05 No. 4926 #8"hex. socket. For 1924 and later models. Price, each ..

Universal-Joint Wrenches

Used many places where small low head wrench is required. Socket Dia. Handle 1316 1318 Price, each . \$.50

General Utility Wrenches

No. 2718 Socket size "6" double hexagon. For connecting rod bolt nuts, main bearings, cam shaft lock plate cap screw, cylinder head valve cover stud nuts, etc. Price, each ...

screw, (rear) bracket bolt nut.

Price, each \$1.50

No. 2724 Socket size 3/4" double hexagon. Handy for cylinder head cap screws, front axle brake arm pivot nut, front spring clip nuts, rear axle housing bearing retaining nut, etc.

manifold nuts—clutch yoke, etc.

Manifold Wrench

No. 518S Dia. shank \$\frac{5}{8}'', length Dia. sliding bar \frac{1}{15}'' - \frac{1}{15}''' hex. socket. Dia. sliding bar \frac{1}{15}'', length 10''. To remove all nuts holding intake and exhaust manifold to the cylinder head. Price, each

Starting Motor Wrench

No. 520S Dia. shank %", length 12", - 5%" hex. socket. Dia. sliding bar ½", length 10". To remove starting motor cap screws. Price, each \$1.85 (These Prices Net to Mechanics)

BLACKHAWK (Socket MILWAUKEE

Special Wrenches

Short Speeders
Dia. handle ½"—Length Overall 14¾4".
No. 4116 Hexagon Socket Size ½".
No. 4118 Hexagon Socket Size ½". Price, each .

Standard Speeders Dia, handle 1/2" - Length Overall 193/8". Hexagon Hexagon No. Socket Size No. Socket Size 6114 6122 6116 6124 6125 6118 6119 6120 6128 \$.70 Price, each

Price, each

Long Speeders

Dia. handle \(\frac{1}{2}'' - \text{Length Overall 28''}. \)

No. 6316 Hexagon Socket Size \(\frac{1}{2}'' \).

Yes 2318 Hexagon Socket Size \(\frac{1}{2} \) (18''). 6318 Hexagon Socket Size Price, each

Universal Joint Tees
Dia. handle ½"—Length 12"
Hexagon
Hexagon Socket Size Socket Size 516 518 520

Price, each Hexagon Hexagon No. Socket Size No. Socket Size 524 528 .\$1.65 Price, each Long Tees

Dia. handle 1/2 -Length 12" Hexagon Hexagon Socket Size No. 3114 3122 3116 3124 3118 3125 3110 3126 3120 3128 Price, each Z Type

No. Socket Size Dia. Handle 2214 2216 2218 2220 2224 Price, each

L Type Length 7" x x 10" Hexagon Hexagon No. No. Socket Size Socket Size 1214 1220 5/8"-11" 3/4"-7/8" 1224 1218 Price, each ..\$.65

Single Socket Offset Hexagon Socket Size Hexagon No. No. Socket Size 1114 1122 1116 1124 1118 1125 1119 1126 1120 1128 Price, each \$.45

Spark Plug Socket Wrenches
No. 3329—For 7/8" and 1" hex. plugs.
No. 3731—For 18" and 11/8" hex. plugs. Price, each

Battery Wrench - Socket Sizes 16"-5/8" for No. 2018 Battery Terminals.

Price, each \$.55

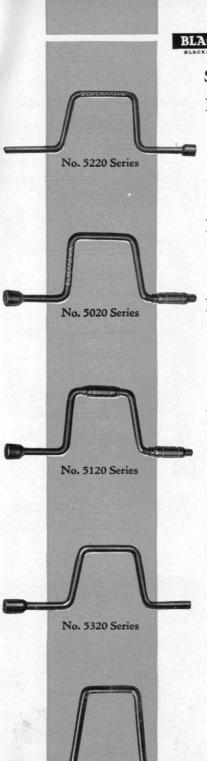
Double End Box Type

Double Hexagon from 3%" to 7%" inclusive. Same socket size on each end. Socket Socket

Price Size 3/8" 1/6" 1/2" Size Price No. 2722 2712 \$1.15 \$1.65 2714 1.20 2724 1.80 2716 2718 2725 2726 1.30 2.00 1.40 2.00 1.50 2728 1.50

2700 Box Type Set Six most popular box type wrenches in attractive and serviceable leather-ette roll. Contains one each 2714, 2716,

No. 4116 and 6118 Series No. 6316 Series No. 516 Series No. 3114 Series BLACKHAWK No. 2214 Series LACKHAWK* No. 1214 Series No. 1114 Series 3329-3731 No. 2018 2712 Series



No. 5336 Series



Standard Rim Wrenches

No. 5220 Series In expensive, these rim wrenches are just the thing for average work.

No. 5220 5222 5224 5226 5228 Size $\frac{5}{8}$ " $\frac{11}{16}$ " $\frac{3}{4}$ " $\frac{13}{16}$ " $\frac{7}{8}$ "

Price, each\$.35

No. 5224B 3/4" socket, 15/8" Deep Rim Wrench.

Price, each\$.55

No. 5020 Series Same as No. 5120 Series less center grip.

No. 5020 5022 5024 5026 5028 Size $\frac{5}{8}$ " $\frac{11}{8}$ " $\frac{3}{4}$ " $\frac{13}{8}$ " $\frac{7}{8}$ "

Price, each\$.50

No. 5120 Series The speed-boy with revolving grips at center and end. Length overall 161/4"—sweep 47/8".

No. 5120 5122 5124 5126 5128 Size $\frac{5}{8}$ " $\frac{11}{16}$ " $\frac{3}{4}$ " $\frac{13}{16}$ " $\frac{7}{8}$ "

Price, each\$.65

Heavy Duty Rim Wrenches

No. 5320 Series The se en tools have extra deep socket with heavy walls. Extra heavy 58 diameter handle with 5½ sweep. The knuckle-saver for Heavy Duty Tire Service.

Rim Wrench for Model "AA" Ford Trucks

This tool is same in appearance as 5300 Series with $\frac{3}{4}$ " dia. handle. Has 8" sweep—socket $\frac{1}{8}$ " Hex, $\frac{15}{8}$ " deep.

No. 5336\$1.05

(These Prices Net to Mechanics)

BLACKHAWK Socket MILWAUKEE BLACKHAWK MFO. CO MILWAUKEE, U.S.A.

Universal Rim Wrenches

No. 5104 This heavy duty service tool has quadruple drop-forged sockets. Sockets revolve in patented head—locked securely in place by simply snapping wrench head back on handle end. Desired socket in place instantly. Can be used for leverage as well as speed—built to stand severe strain. Socket sizes 5%", 116", 34", 7%", hexagon.

No. 5104\$2.85

Universal Cross-type Wrenches

No. 5204X The master of all rim nut jobs. Equipped with extra deep sockets to get both nuts on tire carriers. Will handle any rim nut job whether wood, disc, or wire wheels. Special overall length of 14½" gives all the clearance needed. Diameter of handle 5%"—Depth of sockets 15%". Socket sizes 5%", ½", ¾", ½" hexagon.

No. 5204X\$2.15

No. 5204 Same in appearance as 5204X—but has shorter arms. Overall length of 12½".

No. 5204\$2.00

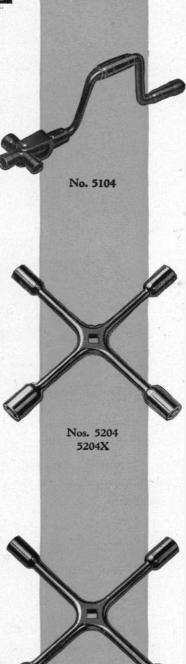
Universal Ford Rim Wrench

No. 5404X Takes care of rim nut jobs on every Ford put out — Models "T", "A", and "AA" trucks. Equipped with four Hexagon sockets 5/8", 11/8".

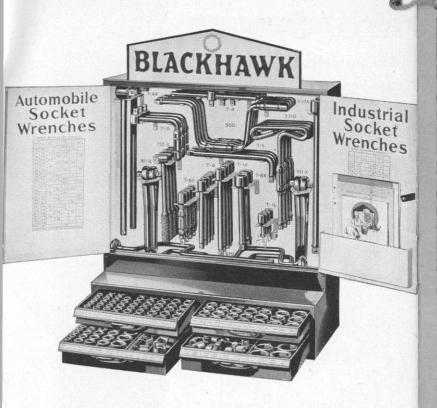
The 5/8" socket for old model "T". The ½" socket for late model "T" and early model "A". The ½" socket for late model "A". The ½" socket for model "AA" truck wheels. Dia. of handle 5/8" on three arms—3/4" on arm with ½" socket. Overall length ½".

No. 5404X \$2.15

(These Prices Net to Mechanics)



No. 5404X



Buy Where You See This Cabinet

The Cabinet pictured here invites you to use its service constantly.

It will be found in the best accessory, hardware and parts stores or in the larger repair shops and garages.

It stocks the most popular tools in the Quick Detachable line.

If you require anything which is not stocked in the Cabinet, the dealer will be glad to secure same from one of our distributing wholesalers.

A handy manual "Set for Every Car and Job"—which is a part of Blackhawk Cabinet Service, gives up-to-date data on the proper handles or sockets for every nut on popular cars and trucks.

Dealers Blackhawk Cabinets come in three sizes: No. 10 with 234 pieces. List Price \$185.85.

No. 10A with 113 pieces. List Price \$102.70.

No. 20 with 94 pieces. List Price \$67.45.

Secure these from your Blackhawk jobber.

Blackhawk Handy Guide For Mechanics

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